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TITLE: RUNAWAY MONITORING CIRCUIT FOR PLURAL MICROCOMPUTERS

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ABSTRACT:

PURPOSE: To secure the safe operations of the microcomputers by
monitoring the runaway states of all microcomputers after
discriminating either one or some of microcomputers from all of
them when an electronic control circuit controls the subject
actuators with use of the control signal of either one of those
microcomputers.

CONSTITUTION: The microcomputers 12 and 12' are provided with the
mutual monitoring circuits 21 and 21' which monitor the abnormal
operations of both microcomputers with each other. Thus the
circuits 21 and 21' monitor the microcomputers 12 end 12' with
each other via a mutual communication circuit 2?. When one of
both microcomputers has a fault, this fault is detected by the
other microcomputer and a fail-safe relay 4 is cut off by the
output of an AND logical element 23. When both microcomputers
have the temporary and accidental faults, the trigger signal of
an OR logical element 25 is not available yet. Therefore a reset
signal is outputted from a runaway monitoring circuit 26 so that
the microcomputers 12 and 12' are reset and started again.

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